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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,177	07/14/2006	Roland Arthur Van Es	US040025US2	7252
24737 7590 04/21/2009 PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAM	IINER
P.O. BOX 3001			BLOUIN, MARK S	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2627	
			MAIL DATE	DELIVERY MODE
			04/21/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/597,177	VAN ES ET AL.				
Office Action Summary	Examiner	Art Unit				
	MARK BLOUIN	2627				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	– action is non-final.					
3) Since this application is in condition for allowar	· 					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.	4) ◯ Claim(s) 1-26 is/are pending in the application.					
4a) Of the above claim(s) is/are withdray	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO_413)				
2) Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PT0-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/14/06. 5) Notice of Informal Patent Application 6) Other:						
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Detailed Action

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Hagiya et al (US 5,086,422).
- 3. Regarding Claim 1, Hagiya et al shows (Figs. 1-24) a disc drive apparatus comprising a disc drive housing (6) containing an OPU (optical pick-up unit) (10) and a DVD cartridge (2), said OPU (5)joined to said DVD cartridge (2) wherein sensitive parts of said OPU fire shielded from an interior environment of said disc drive housing.
- 4. Regarding Claim 2, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, further comprising said housing including at least a duality of openings (106) and a fan (III) that causes a cooling medium to flow through said housing (6) and cool at least one of said DVD cartridge(2) and said OPU (5).
- 5. Regarding Claim 3, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said cooling medium further cools further components including a turntable motor (4) and a disc drive PCB (13).
- 6. Regarding Claim 4, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said cooling medium comprises air.

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- 7. Regarding Claim 5, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said air is unfiltered air.
- 8. Regarding Claim 6, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said sensitive parts are disposed at least partially within said DVD cartridge (2).
- 9. Regarding Claim 7, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, further comprising a dust seal (28,105) joining said OPU (5) and said DVD cartridge (2).
- 10. Regarding Claim 8, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said OPU (5) is translatable with respect to said DVD cartridge (2) and said dust seal (105).
- 11. Regarding Claim 9, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said OPU (5), DVD cartridge (2) and dust seal (105) form a subassembly including an enclosed interior (28) that contains said sensitive parts and is shielded from said interior environment.
- 12. Regarding Claim 10, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, further comprising said housing including at least a duality of openings (106) and a fan (III) that causes a cooling medium to flow through said housing (I) and wherein further parts of said OPU (5) are disposed outside said subassembly and within an OPU casing (6) that is directly cooled by said cooling medium.
- 13. Regarding Claim 11, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said further parts include electrical components and a laser (301).
- 14. Regarding Claim 12, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said sensitive parts comprise optical parts (5a).
- 15. Regarding Claim 13, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein said sensitive parts include at least one of a lens and a mirror (part of optical pickup-5).

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16. Regarding Claim 14, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein

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said OPU (5) is translatable with respect to said DVD cartridge (2).

17. Regarding Claim 15, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, wherein at

least part of said OPU (5) and said DVD cartridge (2) are cooled by forced convection.

18. Regarding Claim 16, Hagiya et al shows (Figs. 1-24) a disc drive apparatus comprising

an optical pick-up unit (5) joined to a DVD cartxidge (2), wherein sensitive parts of said optical

pick-up unit (5) are at least partially surrounded by a dust shield (28,105) and at least further

parts of said optical pick-up unit are cooled by forced convection.

19. Regarding Claim 17, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, further

comprising a housing (6) encasing said DVD cartridge (2) and said optical pick-up unit (5) and a

fan (III), said housing (6) including at least a duality of openings (106) that combine with said

fan (III) to provide said forced convection.

20. Regarding Claim 18, Hagiya et al shows (Figs. 1-24) the disc drive apparatus, in which

said further parts are disposed within a casing (6) covered by a metal dust cover (103).

21. Regarding Claim 19, Hagiya et al shows (Figs. 1-24) the disc drive, wherein said

sensitive parts are disposed within an actuator section of said optical pick-up unit (5) and said

optical pick-up unit (5) is translatable with respect to said DVD cartridge (2) and said dust seal

(28,105).

Conclusion

22. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mark Blouin whose telephone number is 571-272-7583. The

examiner can normally be reached on M-F from 6:00 to 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Joe Feild, can be reached on 571-272-4090. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Mark Blouin/

Primary Examiner of Art Unit 2627

Mark Blouin Patent Examiner Art Unit 2627 April 17, 2009